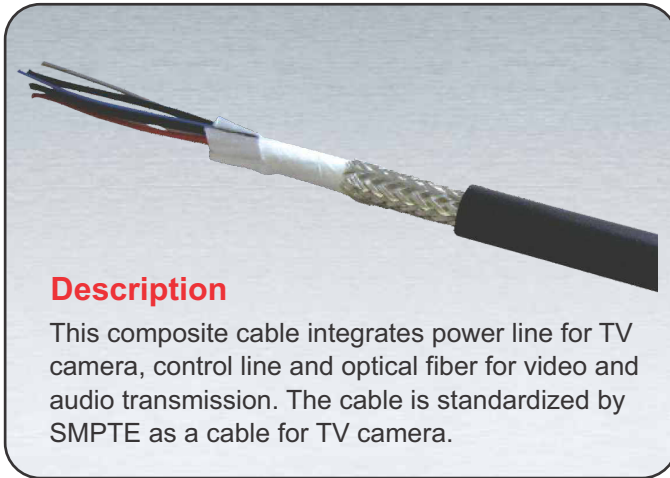


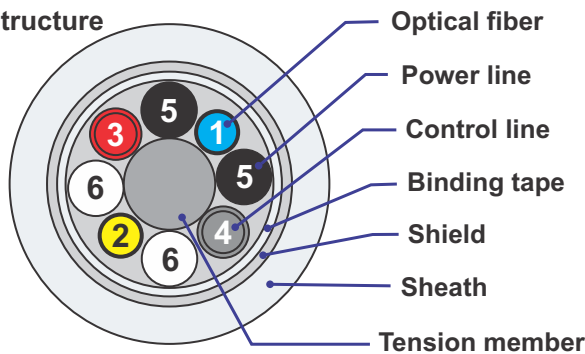
## Cable Type: 1F Furukawa TV-OM-AMS



### Description

This composite cable integrates power line for TV camera, control line and optical fiber for video and audio transmission. The cable is standardized by SMPTE as a cable for TV camera.

### Structure



### Applications

#### Multi-purpose cable: TV-OM-AMS

This cable is suitable for wide applications, such as fixed installation in facilities, relay cable, handy camera cable and patch cable.

Core Number	Core Name	Core Color
1	Optical Fiber	Blue
2		Yellow
3	Control Line	Red
4		Gray
5	Power Line	Black
6		White

\*These cables meet SMPTE 311M.  
(TV-OM-AMS: AWM21480)



### Optical Fiber

Item	Condition	Characteristics	Conversion	
			Condition (km)	Formula
Transmission Loss	$\lambda=1.3\mu\text{m}$	0.5dB/km $\geq$	$L\geq 0.4$	$0.5 \times L \text{dB} \geq$
			$L\leq 0.4$	$0.5 \times 0.4 \text{dB} \geq$

Item	Description
Type of Fiber	Single-mode silica fiber
Mode Field Diameter	9.5 $\pm$ 1 $\mu\text{m}$
Clad Diameter	125 $\pm$ 3 $\mu\text{m}$
Amount of Eccentricity	1 $\mu\text{m}$ or less
Cutoff Wavelength	1.10~1.35 $\mu\text{m}$
Coated Outside Diameter	0.9 $\pm$ 0.1mm

### Power Line

Item	Characteristics
Conductor Resistance	37.5 $\Omega$ /km
Insulation Resistance	10,000M $\Omega$ ·km
Withstand Voltage	AC2,000V/1min.

### Control Line

Item	Characteristics
Conductor Resistance	113 $\Omega$ /km
Insulation Resistance	10,000M $\Omega$ ·km
Withstand Voltage	AC2,000V/1min.

### Cable (integrated)

Item	Type	2SM-9.2-37.5
Optical Fiber Core		See table on left
Power Line	Conductor	Tin-plated soft copper wire strand (21 wire/0.18mm)
	Insulation Thickness	0.4mm nominal
Control Line	Conductor	Tin-plated soft copper wire strand (21 wire/0.18mm)
	Insulation Thickness	0.3mm nominal
Tension Member		Sheathed steel wire, 1.8mm nominal in outside diameter
Core Stranding		Two cores of optical fiber, four cores of power line and two cores of control line are stranded around a tension member
Shield		Tin-plated soft copper wire braid
Sheath (Pb-free)		Abrasion-resistant sheath
Finished Outside Diameter		9.2 $\pm$ 0.3mm nominal
Approximate Mass		120kg/km nominal

### Mechanical Characteristics

Item	Characteristics
Allowable Tension	700N
Allowable Bending Radius	Six times the cable outside diameter or larger

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